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(54) MANUFACTURE OF OPTICAL FIBER SUPERIOR IN LIGHT TRANSMITTANCE

(57)Abstract:

PURPOSE: To enhance light transmittance, and resistance to weather and chemicals, by producing polymethyl methacrylate as a core substance using speified conditions for its polymerization, and separating impurities during production of copolymer and spinning steps.

CONSTITUTION: A mixture of methyl methacrylate monomer, a radical polymn. initiator, a chain transfer agent, etc. are continuously fed into a reactor, and mixed in an aq. medium by uniformly stirring at 90W130°C and polymerized to give a product contg. 20W50% polymer. The next volatile matter separation step and the following spinning step are controlled at 150W300°C to separate impurities. For example, said polymer is spinning at 200°C with a single shaft screw vent type extruder to obtain a fiber for use in a core. This fiber is coated by extrudng polytrifluoromethyl methacrylate, thus permitting an optical fiber superior in light transmittance contg. no impurity.

LEGAL STATUS

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